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**United States Patent** [19]

Nguyen et al.

[11] **Patent Number:** 5,682,181[45] **Date of Patent:** Oct. 28, 1997[54] **METHOD AND DISPLAY CONTROL SYSTEM FOR ACCENTUATING**[75] Inventors: **Hung Nguyen, Poway; Lane T. Hauck, San Diego; Robert W. Shaw, Escondido, all of Calif.**[73] Assignee: **Proxima Corporation, San Diego, Calif.**[21] Appl. No.: **247,720**[22] Filed: **May 23, 1994****Related U.S. Application Data**

[63] Continuation-in-part of Ser. No. 237,013, Apr. 29, 1994, Pat. No. 5,459,484, and Ser. No. 235,292, Apr. 29, 1994, abandoned.

[51] Int. Cl.<sup>6</sup> ..... **G09G 5/08**[52] U.S. Cl. .... **345/158; 345/9**[58] **Field of Search** ..... 345/158, 157, 345/156, 180, 145, 146, 150, 162, 163, 169, 181, 182, 173, 7-9; 348/734, 744, 61, 62, 214, 211; 356/375; 353/122, 28, 42, 43; 434/323, 324, 337[56] **References Cited****U.S. PATENT DOCUMENTS**

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*Primary Examiner—Xiao Wu**Attorney, Agent, or Firm—Bernard L. Kleinke; Peter P. Scott*[57] **ABSTRACT**

A new and improved display control system which includes a logic arrangement for causing auxiliary light information projected from a hand held light generating device upon a projected primary image to be integrated into the primary video image upon command from a user. A display control circuit causes the underlying primary image to be altered to include an accentuating image indicative of the path of travel followed by a spot of auxiliary control light as it is directed by a user via the hand held light generating device. A color control circuit responsive to user input commands enables the accentuating image to be displayed in one of at least eight primary colors. An erase control circuit also responds to user input commands to enable the user entered accentuating images to be deleted selectively individually or in total simultaneously.

**12 Claims, 9 Drawing Sheets**